



CHIR311

Chiropractic 2

S2 Day 2014

Chiropractic

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Disclaimer

Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.

General Information

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Credit points

6

Prerequisites

6cp at 200 level including CHIR211

Corequisites

Co-badged status

Unit description

This unit develops the material covered in CHIR211. It covers spinal manipulation techniques for the cervical, thoracic and lumbo-pelvic regions. The unit covers a 'core' group of techniques and aims at proficiency of this core. The unit further develops the student's knowledge of research methodology.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

On successful completion of this unit, you will be able to:

The ability to perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.

The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

The ability to perform basic static and motion palpation on all spinal and peripheral joints in the body.

An understanding of peripheral and spinal joint mechanics.

A thorough knowledge of human neuro-anatomy.

A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

An understanding of the basic tenants underpinning modern scientific research.

General Assessment Information

GRADES

HD	High Distinction	Denotes work of outstanding quality
D	Distinction	Denotes work of superior quality
Cr	Credit	Denotes work of predominantly good quality
P	Pass	Denotes work of satisfactory quality
F	Fail	Denotes a candidate has failed to complete the unit satisfactorily

Achievement of grades will be based on the following criteria:

Grade	
Pass (P)	A minimum mark of 50% in the neuroscience and technique practical components PLUS a minimum total raw mark of 50%
Credit (Cr)	A minimum mark of 50% in the neuroscience and technique practical components PLUS a minimum total raw mark of 65%
Distinction (D)	A minimum mark of 50% in the neuroscience and technique practical components PLUS a minimum total raw mark of 75%
High Distinction (HD)	A minimum mark of 50% in the neuroscience and technique practical components PLUS a minimum total raw mark of 85%

- Attendance is expected at lectures and tutorials. 85% attendance is the expected requirement for tutorials. Attendance will be recorded and will be taken into consideration when compiling a student's final grade for the unit.
- In order to pass the unit a student must achieve a raw mark of at least 50% of the available mark for Parts A and B of the unit *i.e.* Neuroscience AND Technique Practical as well as a total raw mark of 50% overall (Neuroscience + Technique Theoretical + Technique Practical). A student who achieves a raw mark of at least 50% in Parts B and C AND a total raw mark of at least 50% overall, but fails to achieve a raw mark of at least 50% in Part A, will be eligible for a supplementary exam in Part A. If the student achieves a mark of more than 50% in this supplementary exam the student will have satisfied the requirements to pass the unit and be awarded a Pass grade. If the student does not achieve a mark of more than 50% in the Part A supplementary exam the student will be considered not to have met the requirements to pass the unit and be awarded a Fail grade.

Assessment Tasks

Name	Weighting	Due
<u>Neuroscience online Quiz</u>	5%	weeks 1-12
<u>Neuroscience Spot Test</u>	5%	week 7
<u>Neuroscience OSCE</u>	10%	week 13
<u>Technique Spot Test</u>	10%	week 6
<u>Technique OSCE</u>	20%	week 13
<u>Technique video assignments</u>	10%	weeks 3, 6, 11
<u>Written assignment</u>	10%	week 9
<u>In-class adjustments (ICAs)</u>	0%	weeks 3, 6, 11
<u>Written examination</u>	30%	examination period

Neuroscience online Quiz

Due: **weeks 1-12**

Weighting: **5%**

Online quizzes

On successful completion you will be able to:

- A thorough knowledge of human neuro-anatomy.

Neuroscience Spot Test

Due: **week 7**

Weighting: **5%**

Neuroscience mid-semester Spot test

On successful completion you will be able to:

- A thorough knowledge of human neuro-anatomy.

Neuroscience OSCE

Due: **week 13**

Weighting: **10%**

Neuroscience practical exam

On successful completion you will be able to:

- A thorough knowledge of human neuro-anatomy.

Technique Spot Test

Due: **week 6**

Weighting: **10%**

Technique practical exam

On successful completion you will be able to:

- The ability to perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation on all spinal and peripheral joints in the body.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic

knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

Technique OSCE

Due: **week 13**

Weighting: **20%**

Technique OSCE

On successful completion you will be able to:

- The ability to perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation on all spinal and peripheral joints in the body.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

Technique video assignments

Due: **weeks 3, 6, 11**

Weighting: **10%**

Three video technique assignments

On successful completion you will be able to:

- The ability to perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.

- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

Written assignment

Due: **week 9**

Weighting: **10%**

Written assignment on research methods.

On successful completion you will be able to:

- An understanding of the basic tenants underpinning modern scientific research.

In-class adjustments (ICAs)

Due: **weeks 3, 6, 11**

Weighting: **0%**

In-class adjustments (compulsory)

On successful completion you will be able to:

- The ability to perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpation skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

Written examination

Due: **examination period**

Weighting: **30%**

End of semester written examination

On successful completion you will be able to:

- An understanding of peripheral and spinal joint mechanics.
- A thorough knowledge of human neuro-anatomy.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.
- An understanding of the basic tenants underpinning modern scientific research.

Delivery and Resources

- Number and length of classes per week:
 - 3 x 2 hour lectures
 - 4 x 2 hour tutorials
- The timetable for classes can be found on the University web site at:

<http://www.timetables.mq.edu.au/>

- **ALL TUTORIALS COMMENCE IN WEEK ONE.**
- **Tutorial attendance/participation is required and will be factored into the final grade.**

Required and Recommended texts and/or materials

TEXT

- Oatis CA. The mechanics and Pathomechanics of Human Movement. 2nd ed. Lippincott Williams & Wilkins. 2009.
- Esposito S, Philipson S. Spinal Adjustment Technique: The Chiropractic Art. Self Published. St. Ives, Australia. 2005.

Unit web page

The web page for this unit can be found at <http://ilearn.mq.edu.au/my>

Follow the links to CHIR 311. This includes links to Echo (formerly known as iLecture) at http://ilearn.mq.edu.au/blocks/echo360_echocenter/echocenter_frame.php?id=6154

iLearn access to HLTH 214 is also provided to all students enrolled in CHIR 311.

All essential information that is required for this unit including lecture and tutorial notes will be posted on the iLearn web page.

Unit Schedule

CHIR 311 Syllabus – 2014				
Week	Day	Topic	Lecturer	Tutorial
1	Monday	Neuroanatomy	Whillier	Technique
	Tuesday	Introduction/Biomechanics 1	Engel/Burrell	N/A
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Rahme	Technique
2	Monday	Neuroanatomy	Whillier	Technique
	Tuesday	Research Methods 1	Daniel Steffens	N/A
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Aguis	Technique
3	Monday	Neuroanatomy	Whillier	Technique
	Tuesday	Biomechanics 2	Burrell	N/A

	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Aguis	Technique
4	Monday	Neuroanatomy	Whillier	Technique
	Tuesday	Research Methods 2	Daniel Steffens	N/A
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Rahme	Technique
5	Monday	Neuroanatomy	Whillier	Technique
	Tuesday	Biomechanics 3	Burrell	N/A
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Aguis	Technique
6	Monday	Neuroanatomy	Whillier	Technique
	Tuesday	Research Methods 3	Bruno Saragiotto	N/A
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Rahme	TECHNIQUE SPOT TEST
7	Monday	Neuroanatomy	Whillier	Technique
	Tuesday	Research Methods 4	Bruno Saragiotto	N/A
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		NEURO SPOT TEST Technique
	Friday	CONCEPTION DAY	NO LECTURE	NO TUTORIAL
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8	Monday	PUBLIC HOLIDAY	NO LECTURE	NO TUTORIAL

	Tuesday	Biomechanics 4	Burrell	N/A
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Aguis	Technique
9	Monday	Neuroanatomy	Whillier	Technique
	Tuesday	NO LECTURE	Attend CHIR 316 lecture Wed 8-10	N/A
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Aguis	Technique
10	Monday	Neuroanatomy	Whillier	Technique
	Tuesday	Research Methods 5	Gustavo Machado	N/A
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Aguis	Technique
11	Monday	Neuroanatomy	Whillier	Technique
	Tuesday	Research Methods 6	Gustavo Machado	N/A
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Rahme	Technique
12	Monday	Neuroanatomy	Whillier	Technique
	Tuesday	Research Methods 7	Roger Engel	N/A
	Wednesday	Neuroanatomy tutorial (1-3) Technique (3-5)		Neuro Technique
	Friday	Technique	Aguis	Technique

13	Monday	NO LECTURE		TECHNIQUE OSCE
	Tuesday	NO LECTURE		NO TUTORIAL
	Wednesday	NO LECTURE		NEURO OSCE
	Friday	NO LECTURE		NO TUTORIAL

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](#). Students should be aware of the following policies in particular with regard to Learning and Teaching:

Academic Honesty Policy http://mq.edu.au/policy/docs/academic_honesty/policy.html

Assessment Policy <http://mq.edu.au/policy/docs/assessment/policy.html>

Grading Policy <http://mq.edu.au/policy/docs/grading/policy.html>

Grade Appeal Policy <http://mq.edu.au/policy/docs/gradeappeal/policy.html>

Grievance Management Policy http://mq.edu.au/policy/docs/grievance_management/policy.html

Disruption to Studies Policy http://www.mq.edu.au/policy/docs/disruption_studies/policy.html *The Disruption to Studies Policy is effective from March 3 2014 and replaces the Special Consideration Policy.*

In addition, a number of other policies can be found in the [Learning and Teaching Category](#) of Policy Central.

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/support/student_conduct/

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

IT Help

For help with University computer systems and technology, visit <http://informatics.mq.edu.au/help/>.

When using the University's IT, you must adhere to the [Acceptable Use Policy](#). The policy applies to all who connect to the MQ network including students.

Graduate Capabilities

Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

Learning outcomes

- The ability to perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation on all spinal and peripheral joints in the body.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the

indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

- An understanding of the basic tenants underpinning modern scientific research.

Assessment tasks

- Technique Spot Test
- Written examination

Commitment to Continuous Learning

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

Learning outcomes

- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- An understanding of peripheral and spinal joint mechanics.
- A thorough knowledge of human neuro-anatomy.
- An understanding of the basic tenants underpinning modern scientific research.

Assessment tasks

- Technique Spot Test
- Technique OSCE
- Technique video assignments
- Written assignment

Discipline Specific Knowledge and Skills

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

Learning outcomes

- The ability to perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation on all spinal and peripheral joints in the body.
- An understanding of peripheral and spinal joint mechanics.
- A thorough knowledge of human neuro-anatomy.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

Assessment tasks

- Neuroscience online Quiz
- Neuroscience Spot Test
- Neuroscience OSCE
- Technique Spot Test
- Technique OSCE
- Technique video assignments
- In-class adjustments (ICAs)
- Written examination

Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

Learning outcomes

- The ability to perform a basic set of spinal and a full set of peripheral adjustments and/or mobilisations with a level of psychomotor skill that is appropriate for these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- An understanding of peripheral and spinal joint mechanics.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

Assessment tasks

- Neuroscience OSCE
- Technique OSCE
- Technique video assignments
- Written assignment
- Written examination

Problem Solving and Research Capability

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

Learning outcomes

- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

- An understanding of the basic tenants underpinning modern scientific research.

Assessment tasks

- Neuroscience Spot Test
- Neuroscience OSCE
- Written assignment
- Written examination

Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

Learning outcomes

- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

Assessment tasks

- Technique Spot Test
- Technique OSCE
- Technique video assignments
- Written assignment

Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

Learning outcomes

- The ability to perform basic static and motion palpation on all spinal and peripheral joints in the body.
- A thorough knowledge of the functional anatomy of the human body including: a) A basic knowledge of the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) A basic knowledge of structural analysis as it relates to posture and dysfunction; c) The ability to demonstrate an appropriate level of care in the handling of a patient; d) The ability to demonstrate motion palpation findings for spinal and peripheral joints.

Assessment tasks

- Technique OSCE
- Technique video assignments

Engaged and Ethical Local and Global citizens

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

Learning outcome

- An understanding of the basic tenants underpinning modern scientific research.

Assessment task

- Written assignment

Changes since First Published

Date	Description
30/07/2014	Changes made to weekly schedule to accommodate Conception Day.